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# **MINOX**

## **FE 4**

Type 22410

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### **Ersatzteile**

### **Reparatur**

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### **Spare Parts**

### **Repairs**

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### **Pièces de rechange**

### **Réparation**

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### **Repuestos**

### **Reparación**

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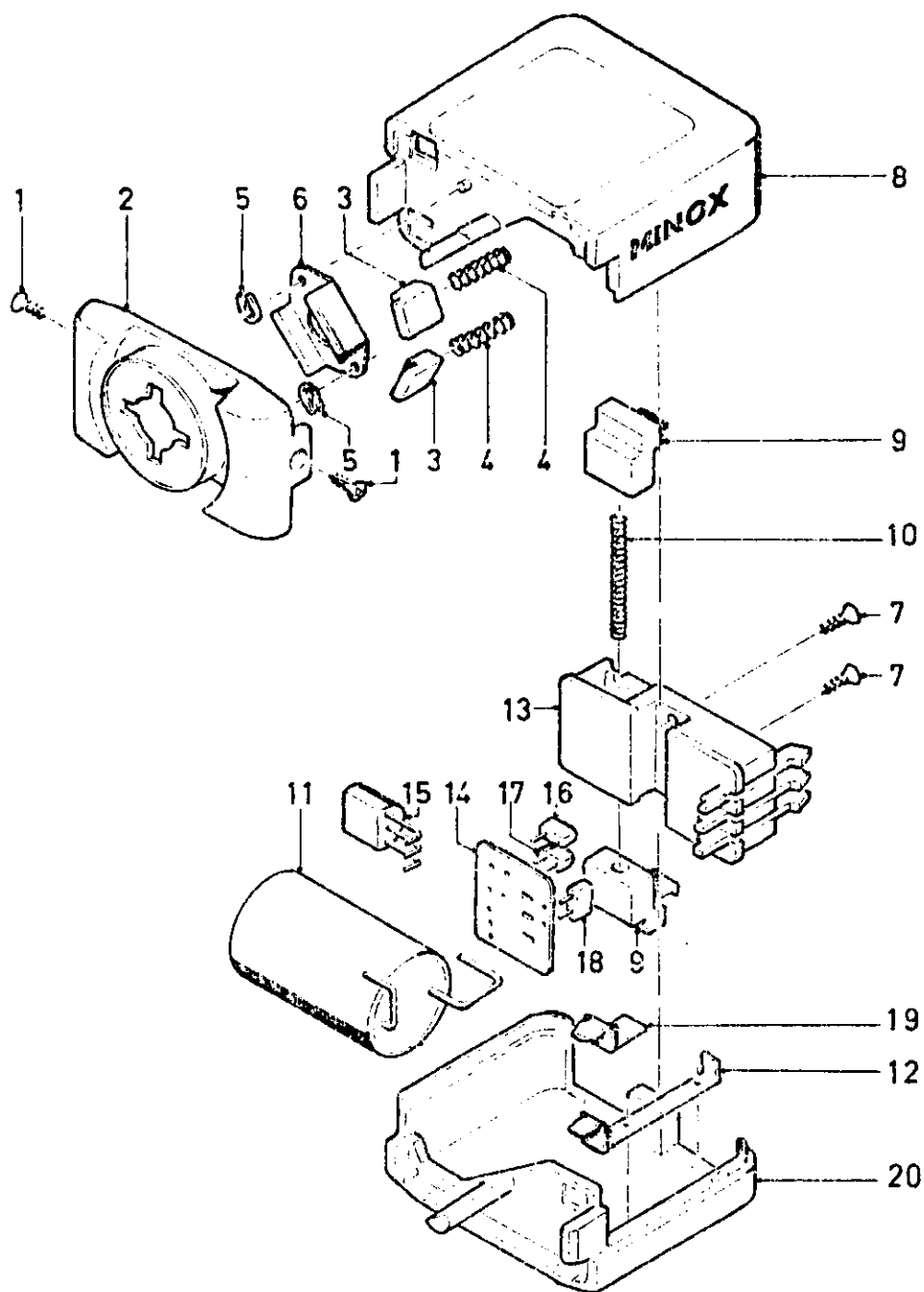
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Telex 482986 minox d



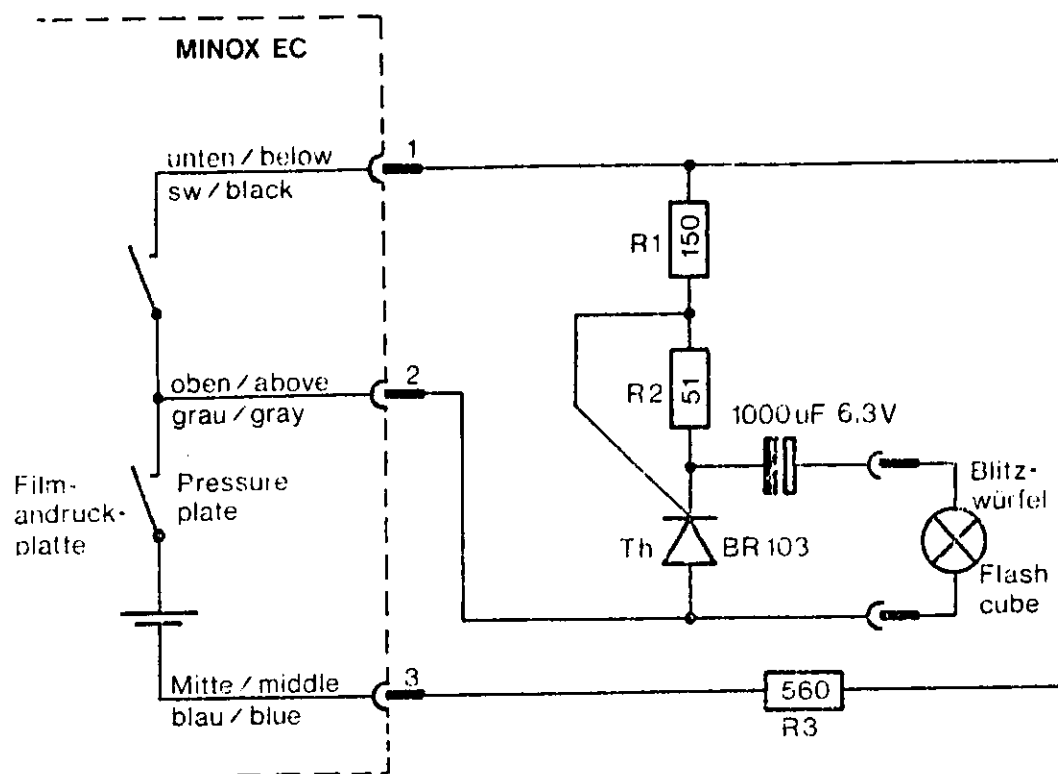


**MINOX FE4**

31: B2

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Bild-Nr Fig no	Stück qty	Teilebezeichnung / Part name Designation / Designacion	Teil-Nr / Part no / No de piece / No de pieza
1	2	Countersunk screw Bg 1.45 x 3.2 mm	00000 30125
2	1	Cap	22410 01008
3	2	Contact nipple	22080 10004
4	2	Compression spring	00000 35049
5	2	Grip ring G 1.5	00000 31071
6	1	Stop spring	22030 01004
7	2	Countersunk screw Bg 1.45 x 5 mm	00000 30124
8	1	Body shell (with MINOX)	22410 01002
9	2	Catch	22410 01003
10	1	Compression spring	22410 01004
11	1	Capacitor, bent 1000 $\mu$ F/6.3 V	22410 01010
	(1)	Capacitor 1000 $\mu$ F/6.3 V	00000 36343
12	1	Lug	22410 01105
13	1	Mounting plate, complete	22410 10000
14	1	P.C. board, complete	22410 30000
15	1	. Thyristor BR 103 or equivalent	00000 36342
16	1	. Resistor R 1 150 Ohm	00000 36267
	(1)	. Resistor R 1 100 Ohm	00000 36341
17	1	. Resistor R 2 51 Ohm	00000 36181
	(1)	. Resistor R 2 100 Ohm	00000 36341
18	1	. Resistor R 3 560 Ohm	00000 36340
	(1)	. Resistor R 3 330 Ohm	00000 36269
19	1	Solder terminal	22410 01106
20	1	Body shell	22410 01001



### Disassembly and Assembly =====

Warning! When soldering, do not use soldering iron at more than 350° C, and keep soldering time to a minimum.

1. Unscrew 2 screws (1) and remove cap (2).
2. Take off 2 contact nipples (3) and 2 compression springs (4).
3. Remove 2 grip rings (5) using grip ring pliers and take off stop spring (6).
4. Unscrew one screw (7) on the underside above letters "FE 4". Lift off body shell (8) with "MINOX" symbol and remove one catch (9) and the compression spring (10).
5. Unsolder and remove capacitor (11) on solder terminal (19) and on P.C. board (14).
6. Unsolder lug (12) on P.C. board (14).
7. Unscrew second screw (7) on underside. Lift off body shell (20) and remove catch (9).
8. Unsolder P.C. board (14) at the 3 contact angles of the mounting plate (13).

Warning! Only carry out this procedure if absolutely unavoidable. If too much heat is applied during soldering, the welds at the 3 contact angles could melt!

9. Assembly of the flash unit is carried out in reverse order. Always use new grip rings (5) when fixing stop spring (6).

Complaints about flash unit		VI 82
Nr./No.	Fehler / Fault	Fehler - Ursache / Cause of fault
1	Flash unit does not flash.	a) Cold soldering joint on capacitor. b) Cold soldering joint at contacts 1, 2 or 3 on the P.C. board. c) Cold soldering joint at resistors R1, R2, or R3 or defective. d) Thyristor defective.
2	Flash unit flashes when pushed together with camera.	a) Unit flashes because thyristor adjusted too sensitively. Change resistor R1 from 100 Ohm to 150 Ohm and resistor R2 from 100 Ohm to 51 Ohm.